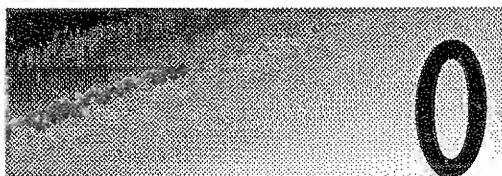
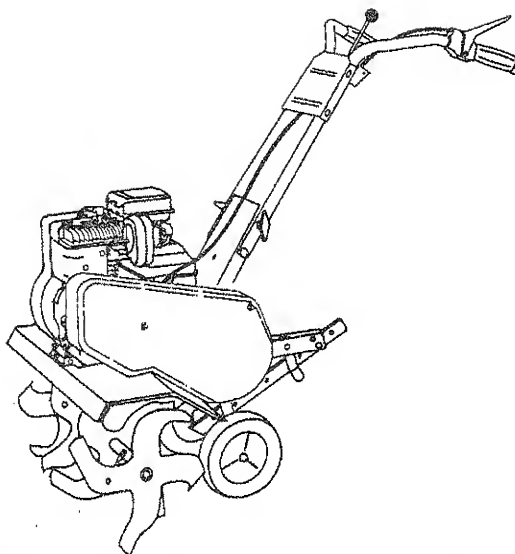


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OWNER'S MANUAL

Model No. WEF550B

5 HP 24 Inch Front Tine Tiller

- Assembly
- Operation
- Customer Responsibilities
- Service and Adjustments
- Storage
- Troubleshooting
- Repair Parts

For Parts and Service, contact our authorized distributor: in the U.S., call 1-800-849-YARD; In Canada, call 1-800-263-0660

WEED EATER®



SAFETY RULES

Safe Operation Practices for Walk-Behind Powered Rotary Tillers



TRAINING

- Read the Owner's Manual carefully. Be thoroughly familiar with the controls and the proper use of the equipment. Know how to stop the unit and disengage the controls quickly.
- Never allow children to operate the equipment. Never allow adults to operate the equipment without proper instruction.
- Keep the area of operation clear of all persons, particularly small children, and pets.

PREPARATION

- Thoroughly inspect the area where the equipment is to be used and remove all foreign objects.
- Disengage all clutches and shift into neutral before starting the engine (motor).
- Do not operate the equipment without wearing adequate outer garments. Wear footwear that will improve footing on slippery surfaces.
- Handle fuel with care; it is highly flammable.
 - Use an approved fuel container.
 - Never add fuel to a running engine or hot engine.
 - Fill fuel tank outdoors with extreme care. Never fill fuel tank indoors.
 - Replace gasoline cap securely and clean up spilled fuel before restarting.
- Use extension cords and receptacles as specified by the manufacturer for all units with electric drive motors or electric starting motors.
- Never attempt to make any adjustments while the engine (motor) is running (except where specifically recommended by manufacturer).

OPERATION

- Do not put hands or feet near or under rotating parts.
- Exercise extreme caution when operating on or crossing gravel drives, walks, or roads. Stay alert for hidden hazards or traffic. Do not carry passengers.
- After striking a foreign object, stop the engine (motor), remove the wire from the spark plug, thoroughly inspect the tiller for any damage, and repair the damage before restarting and operating the tiller.
- Exercise caution to avoid slipping or falling.

- If the unit should start to vibrate abnormally, stop the engine (motor) and check immediately for the cause. Vibration is generally a warning of trouble.
- Stop the engine (motor) when leaving the operating position.
- Take all possible precautions when leaving the machine unattended. Disengage the tines, shift into neutral, and stop the engine.
- Before cleaning, repairing, or inspecting, shut off the engine and make certain all moving parts have stopped. Disconnect the spark plug wire, and keep the wire away from the plug to prevent accidental starting. Disconnect the cord on electric motors.
- Do not run the engine indoors; exhaust fumes are dangerous.
- Never operate the tiller without proper guards, plates, or other safety protective devices in place.
- Keep children and pets away.
- Do not overload the machine capacity by attempting to till too deep at too fast a rate.
- Never operate the machine at high speeds on slippery surfaces. Look behind and use care when backing.
- Never allow bystanders near the unit.
- Use only attachments and accessories approved by the manufacturer of the tiller (such as wheel weights, counterweights, cabs, and the like).
- Never operate the tiller without good visibility or light.
- Be careful when tilling in hard ground. The tines may catch in the ground and propel the tiller forward. If this occurs, let go of the handlebars and do not restrain the machine.

MAINTENANCE AND STORAGE

- Keep machine, attachments, and accessories in safe working condition.
- Check shear pins, engine mounting bolts, and other bolts at frequent intervals for proper tightness to be sure the equipment is in safe working condition.
- Never store the machine with fuel in the fuel tank inside a building where ignition sources are present, such as hot water and space heaters, clothes dryers, and the like. Allow the engine to cool before storing in any enclosure.
- Always refer to the operator's guide instructions for important details if the tiller is to be stored for an extended period.

- IMPORTANT -

CAUTIONS, IMPORTANTS, AND NOTES ARE A MEANS OF ATTRACTING ATTENTION TO IMPORTANT OR CRITICAL INFORMATION IN THIS MANUAL.



CAUTION: Look for this symbol to point out important safety precautions. It means —Attention! Become Alert! Your safety is involved.

IMPORTANT: USED TO ALERT YOU THAT THERE IS A POSSIBILITY OF DAMAGING THIS EQUIPMENT.

NOTE: Gives essential information that will aid you to better understand, incorporate, or execute a particular set of instructions.

CONGRATULATIONS on your purchase of a new tiller. It has been designed, engineered and manufactured to give you the best possible dependability and performance.

Should you experience any problems you cannot easily remedy, please contact your nearest authorized service center. We have competent, well-trained technicians and the proper tools to service or repair this unit.

Please read and retain this manual. The instructions will enable you to assemble and maintain your tiller properly. Always observe the "SAFETY RULES".

MODEL
NUMBER **WEF550B**
SERIAL
NUMBER _____

DATE OF PURCHASE _____

THE MODEL AND SERIAL NUMBERS WILL BE FOUND ON THE MODEL PLATE ATTACHED TO THE RIGHT HAND ENGINE BRACKET.

YOU SHOULD RECORD BOTH SERIAL NUMBER AND DATE OF PURCHASE AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE.

PRODUCT SPECIFICATIONS

HORSEPOWER:	5.0 HP
DISPLACEMENT:	12.57 cu. in. (206cc)
GASOLINE CAPACITY:	3 Quarts (2.8L) Unleaded Regular
OIL : (CAPACITY: 20 oz./0.6L)	SAE 30W (Above 32°F/0°C) SAE 5W-30 (Below 32°F/0°C)
SPARK PLUG : (GAP: .030"/0.76mm)	Champion RJ19LM

CUSTOMER RESPONSIBILITIES

- Read and observe the safety rules.
- Follow a regular schedule in maintaining, caring for and using your tiller.
- Follow instructions under "Customer Responsibilities" and "Storage" sections of this Owner's Manual.

IMPORTANT: THIS UNIT IS EQUIPPED WITH AN INTERNAL COMBUSTION ENGINE AND SHOULD NOT BE USED ON OR NEAR ANY UNIMPROVED FOREST-COVERED, BRUSH-COVERED OR GRASS COVERED LAND UNLESS THE ENGINE'S EXHAUST SYSTEM IS EQUIPPED WITH A SPARK ARRESTER MEETING APPLICABLE LOCAL LAWS (IF ANY). IF A SPARK ARRESTER IS USED, IT SHOULD BE MAINTAINED IN EFFECTIVE WORKING ORDER BY THE OPERATOR.

IN THE STATE OF CALIFORNIA, A SPARK ARRESTER IS REQUIRED BY LAW (SECTION 4442 OF THE CALIFORNIA PUBLIC RESOURCES CODE). OTHER STATES MAY HAVE SIMILAR LAWS. FEDERAL LAWS APPLY ON FEDERAL LANDS. SEE YOUR AUTHORIZED SERVICE CENTER FOR SPARK ARRESTER.

LIMITED WARRANTY

The Manufacturer warrants to the original consumer purchaser that this product as manufactured is free from defects in materials and workmanship. For a period of two (2) years from date of purchase by the original consumer purchaser, we will repair or replace, at our option, without charge for parts or labor incurred in replacing parts, any part which we find to be defective due to materials or workmanship. This Warranty is subject to the following limitations and exclusions.

1. This warranty does not apply to the engine or components parts thereof. Please refer to the applicable manufacturer's warranty on these items.
2. Transportation charges for the movement of any power equipment unit or attachment are the responsibility of the purchaser. Transportation charges for any parts submitted for replacement under this warranty must be paid by the purchaser unless such return is requested by American Yard Products, Inc.
3. The Warranty period for any products used for rental or commercial purposes is limited to 90 days from the date of original purchase.
4. This Warranty applies only to products which have been properly assembled, adjusted, operated, and maintained in accordance with the instructions furnished. This Warranty does not apply to any product which has been subjected to alteration, misuse, abuse, improper assembly or installation, delivery damage, or to normal wear of the product.
5. Exclusions: Excluded from this Warranty are belts, tines, tine adapters, normal wear, normal adjustments, standard hardware and normal maintenance.
6. In the event you have a claim under this Warranty, you must return the product to an authorized service dealer.

Should you have any unanswered questions concerning this Warranty, please contact:

American Yard Products, Inc.
Service Department
P.O. Box 1687
Orangeburg, SC 29116 USA

In Canada contact:
AYP Canada, Inc.
1040 Jayson Court
Mississauga, Ontario
L4W 2V5

giving the model number, serial number and date of purchase of your product and the name and address of the authorized dealer from whom it was purchased.

THIS WARRANTY DOES NOT APPLY TO INCIDENTAL OR CONSEQUENTIAL DAMAGES AND ANY IMPLIED WARRANTIES ARE LIMITED TO THE SAME TIME PERIODS STATED HEREIN FOR OUR EXPRESSED WARRANTIES. Some areas do not allow the limitation of consequential damages or limitations of how long an implied Warranty may last, so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights, and you may have other rights which vary from locale to locale.

This is a limited Warranty within the meaning of that term as defined in the Magnuson-Moss Act of 1975.

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ASSEMBLY

Your new tiller has been assembled at the factory with exception of those parts left unassembled for shipping purposes. To ensure safe and proper operation of your tiller all parts and hardware you assemble must be tightened securely. Use the correct tools as necessary to insure proper tightness.

TOOLS REQUIRED FOR ASSEMBLY

A socket wrench set will make assembly easier. Standard wrench sizes are listed.

- (1) Utility knife
- (1) Pair of pliers
- (1) Screwdriver
- (2) 1/2" wrenches

OPERATOR'S POSITION (See Fig. 1)

When right or left hand is mentioned in this manual, it means when you are in the operating position (standing behind tiller handles).

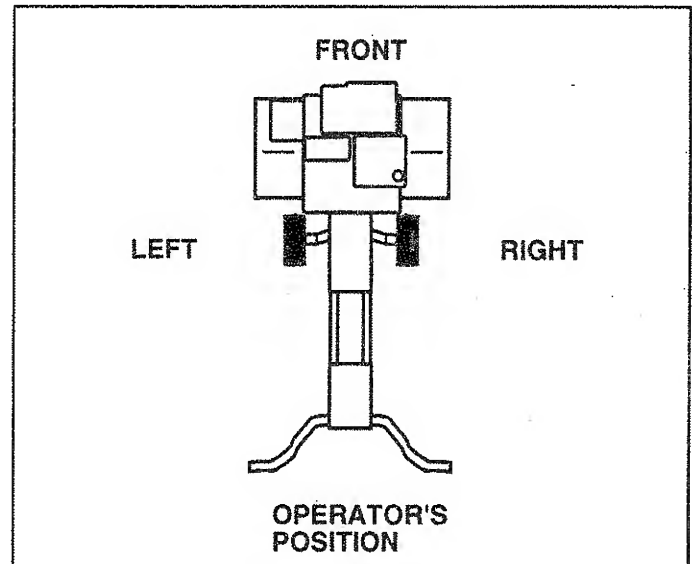
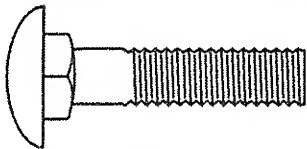
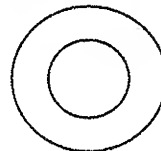


FIGURE 1

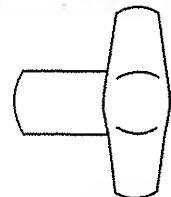
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(2) Carriage Bolts 5/16-18 UNC x 1-1/4 Gr. 5



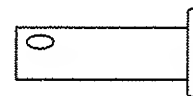
(2) Washers 3/8 x 7/8 x 14 Ga.



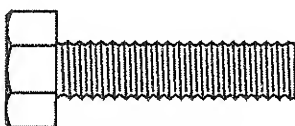
(2) Handle Knobs



(1) Cotter Pin



(1) Clevis Pin



(2) Hex Bolts 5/16-18 x 1-1/4



(2) Hex Nuts 5/16-18



(2) Lock Washers 5/16

ASSEMBLY

UNPACK CARTON & INSTALL HANDLE (See Fig. 2)



CAUTION: Be careful of exposed staples when handling or disposing of cartoning material.

IMPORTANT: WHEN UNPACKING AND ASSEMBLING TILLER, BE CAREFUL NOT TO STRETCH OR KINK CABLE(S).

- Cut cable ties securing handles.
- Slowly lift handle assembly up and align handle slots with handle panel bolts. Push tiller handles down so handle slots are seated on handle panel bolts.
- Secure handle assembly to handle panel using two carriage bolts, washers and handle knobs. Tighten securely.
- Cut cable ties securing tiller to skid and remove tiller from skid.

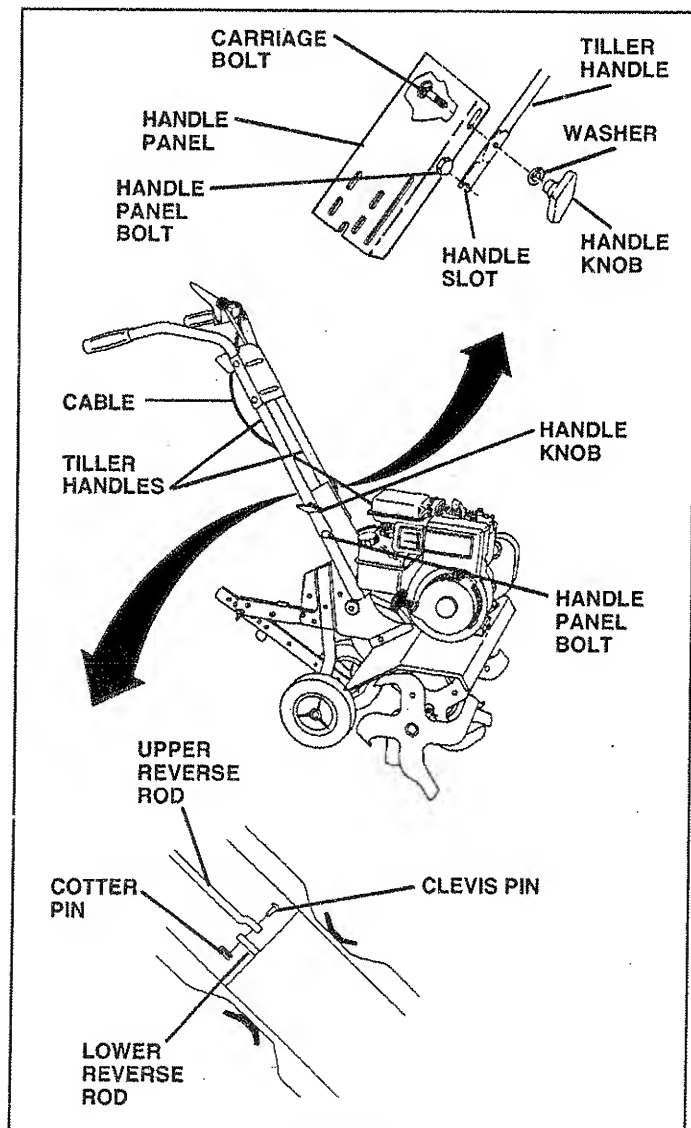


FIG. 2

INSTALL DEPTH STAKE ASSEMBLY (See Fig. 3)

- Insert stake support between engine bracket halves with stake spring down.

NOTE: It may be necessary to loosen nut "A".

- Bolt stake support to engine brackets with bolts, lock washers and nuts. Tighten securely. Also tighten nut "A" if it was necessary to loosen.
- Depth stake must move freely. If it does not, loosen support bolt.

INSTALL REVERSE ROD (See Fig. 2)

- Secure upper reverse rod to lower reverse rod using clevis pin. Secure with cotter pin.

HANDLE HEIGHT

- Handle height may be adjusted to better suit operator. (See "HANDLE HEIGHT" in the Service and Adjustments section of this manual).

TILLING WIDTH

- Tilling width may be adjusted to better handle your tilling conditions (See "TINE ARRANGEMENT" in the Service and Adjustments section of this manual).

TINE OPERATION

- Check tine operation before first use. (See "TINE OPERATION CHECK" in the Service and Adjustments section of this manual).

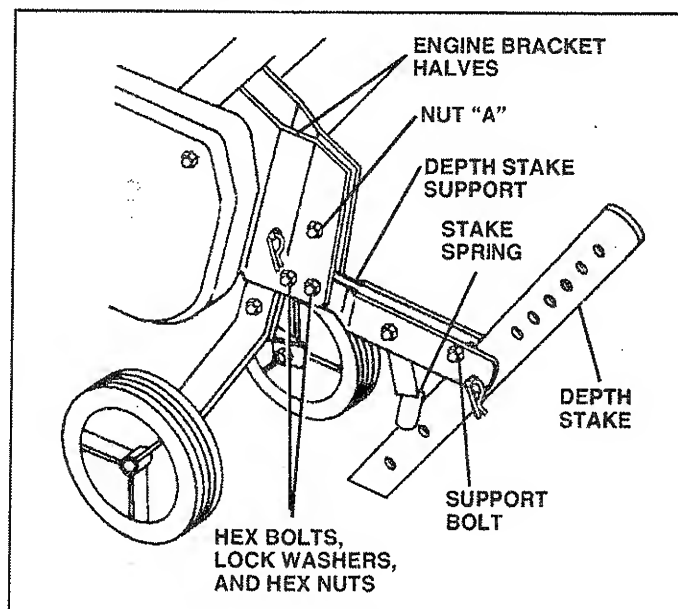


FIG. 3

OPERATION

KNOW YOUR TILLER

READ THIS OWNER'S MANUAL AND SAFETY RULES BEFORE OPERATING YOUR TILLER.

Compare the illustrations with your tiller to familiarize yourself with the location of various controls and adjustments. Save this manual for future reference.

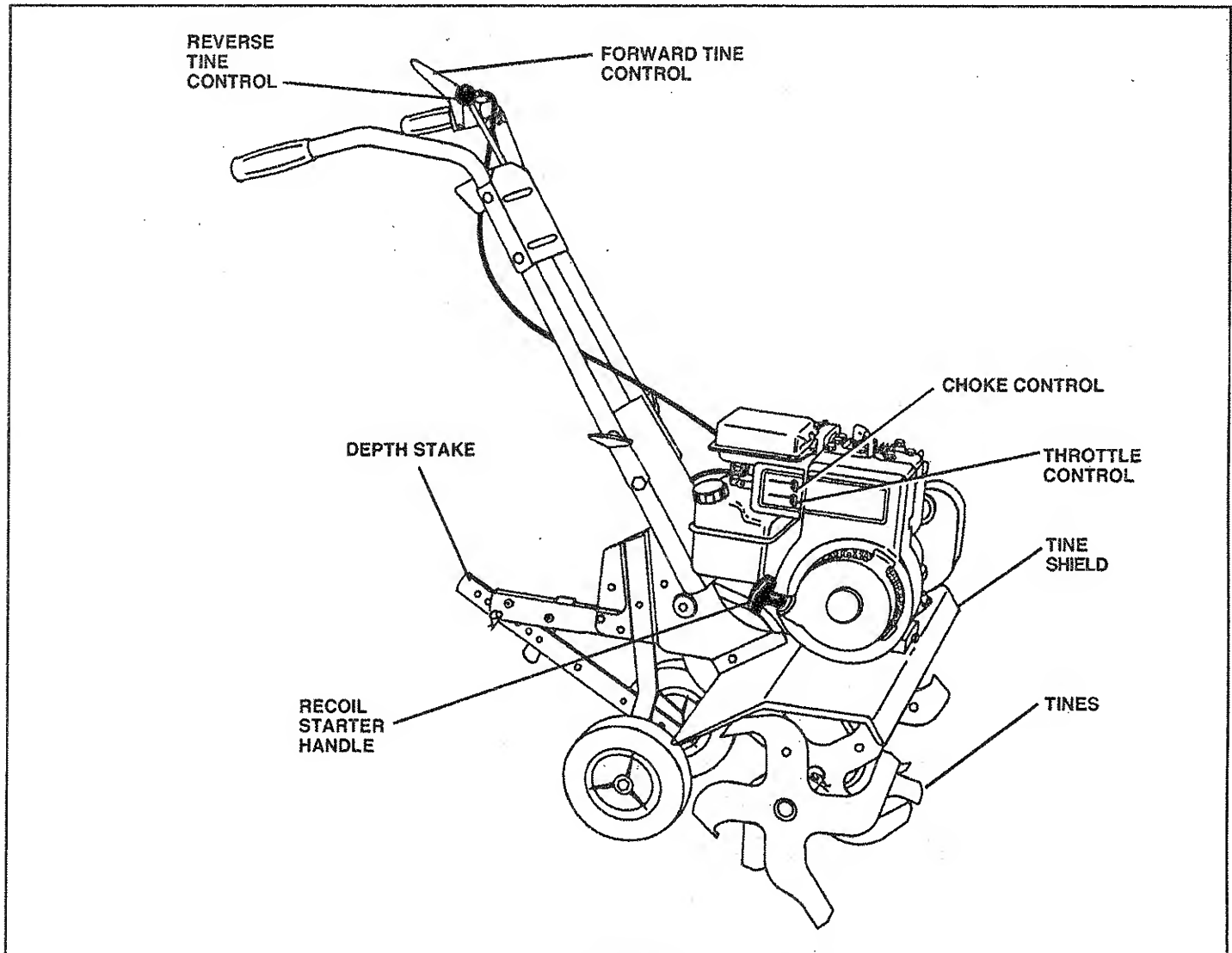


FIG. 4

MEETS ANSI SAFETY REQUIREMENTS

Our tillers conform to the safety standards of the American National Standards Institute.

FORWARD TINE CONTROL - Engages tines in forward direction.

REVERSE TINE CONTROL - Engages tines in reverse direction.

THROTTLE CONTROL - Controls engine speed.

CHOKE CONTROL - Used when starting a cold engine.

DEPTH STAKE - Controls forward speed and the depth at which the tiller will dig.

RECOIL STARTER HANDLE - Used to start the engine.

OPERATION



The operation of any tiller can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields before starting your tiller and while tilling. We recommend wide vision safety mask for over the spectacles or standard safety glasses.

HOW TO USE YOUR TILLER

STOPPING (See Fig. 5)

TINES

- Release forward tine control to stop forward movement.
- Release reverse tine control to stop reverse tine movement.

ENGINE

- Move throttle control to "STOP" position.
- Never use choke to stop engine.

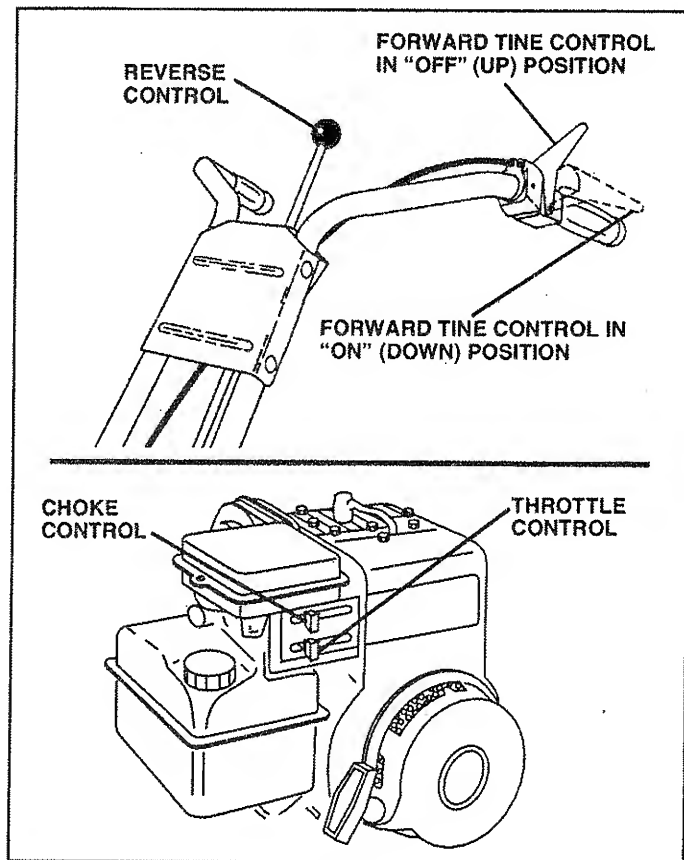


FIG. 5

TINE OPERATION (See Fig. 5)

Start engine and move throttle control to desired speed.

FORWARD

- Squeeze forward tine control to handle.

REVERSE

- With forward tine control "OFF" (up) position, pull back and hold reverse tine control.

TILLING

The speed and depth of tilling is regulated by the position of the depth stake and wheel height.

The depth stake should always be below the wheels for digging. It serves as a brake to slow the tiller's forward motion to enable the tines to penetrate the ground. Also, the more the depth stake is lowered into the ground the deeper the tines will dig.

DEPTH STAKE (See Fig. 6)

Adjust depth stake by removing the hairpin clip and clevis pin. Change depth stake to desired position. Replace the clevis pin and hairpin clip.

- For normal tilling, set depth stake at the second or third hole from the top.

WHEELS (See Fig. 6)

Adjust wheels by removing the hairpin clip and clevis pin. Change wheel position. Replace the hairpin clip and clevis pin.

- For normal tilling, set wheels at the second or third hole from the top.

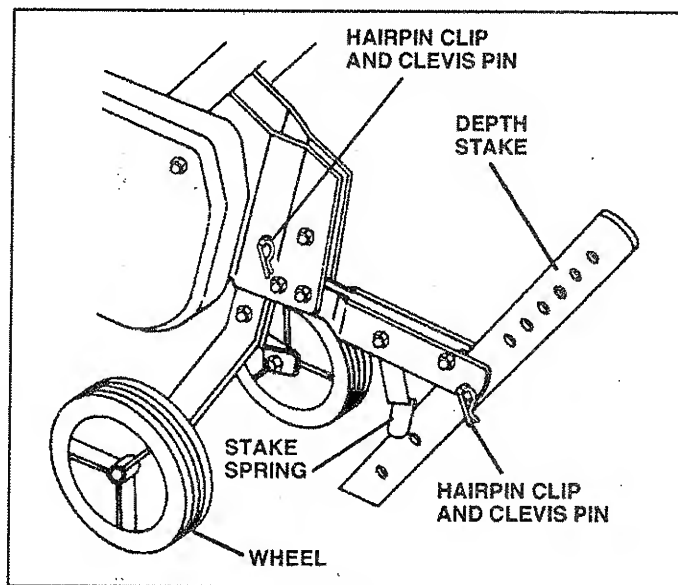


FIG. 6

OPERATION

TRANSPORTING YOUR TILLER



CAUTION: Before lifting or transporting, allow tiller engine and muffler to cool. Disconnect spark plug wire. Drain gasoline from fuel tank.

AROUND THE YARD

- Tip depth stake forward until it is held by the stake spring.
- Push tiller handles down, raising tines off the ground.
- Push or pull tiller to desired location.

AROUND TOWN

- Disconnect spark plug wire.
- Drain fuel tank.
- Transport in upright position to prevent oil leakage.

BEFORE STARTING ENGINE

IMPORTANT: BE VERY CAREFUL NOT TO ALLOW DIRT TO ENTER THE ENGINE WHEN CHECKING OR ADDING OIL OR FUEL. USE CLEAN OIL AND FUEL AND STORE IN APPROVED, CLEAN, COVERED CONTAINERS. USE CLEAN FILL FUNNELS.

CHECK ENGINE OIL LEVEL (See Fig. 7)

- The engine in your unit has been shipped, from the factory, already filled with summer weight oil.
- With engine level, remove engine oil filler plug.
- Engine oil should be to point of overflowing. For approximate capacity see "PRODUCT SPECIFICATIONS" on page 3 of this manual.
- For cold weather operation you should change oil for easier starting (See "OIL VISCOSITY CHART" in the Customer Responsibilities section of this manual).
- To change engine oil, see the Customer Responsibilities section in this manual.

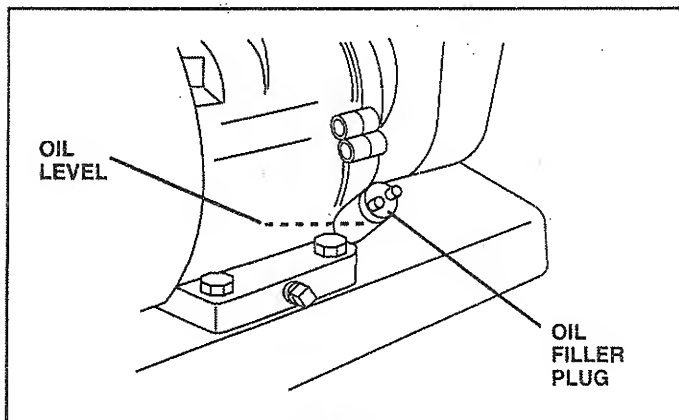


FIG. 7

ADD GASOLINE

- Fill fuel tank. Use fresh, clean, regular unleaded gasoline. (Use of leaded gasoline will increase carbon and lead oxide deposits and reduce valve life.

IMPORTANT: WHEN OPERATING IN TEMPERATURES BELOW 32°F (0°C), USE FRESH, CLEAN, WINTER GRADE GASOLINE TO HELP INSURE GOOD COLD WEATHER STARTING.

WARNING: Experience indicates that alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage. To avoid engine problems, the fuel system should be emptied before storage of 30 days or longer. Drain the gas tank, start the engine and let it run until the fuel lines and carburetor are empty. Use fresh fuel next season. See the Storage section of this manual for additional information. Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.



CAUTION: Fill to within 1/2" (1.3 cm) of top of fuel tank to prevent spills and to allow for fuel expansion. If gasoline is accidentally spilled, move machine away from area of spill. Avoid creating any source of ignition until gasoline vapors have disappeared.

Do not overfill. Wipe off any spilled oil or fuel. Do not store, spill or use gasoline near an open flame.

TO START ENGINE (See Fig. 8)



CAUTION: Keep the tine control in "OFF" position when starting engine.

- Make sure spark plug wire is properly connected.
- Place throttle control in "FAST" position.
- To start a cold engine, place choke control in "CHOKE" position. A warm engine requires less choking to start.
- Grasp starter handle with one hand and grasp the tiller with other hand. Pull rope out slowly until engine reaches start of compression cycle (rope will pull slightly harder at this point).
- Pull starter handle quickly. Do not let starter handle snap back against starter.
- When engine starts, slowly move choke control to "RUN" position as engine warms up.
- Move throttle control to desired running position.
- Allow engine to warm up for a few minutes before engaging tines.

NOTE: If at a high altitude (above 3000 ft./915 m) or in cold temperatures (below 32°F/0°C), the carburetor fuel mixture may need to be adjusted for best engine performance. See "TO ADJUST CARBURETOR" in the Service and Adjustments section of this manual.

OPERATION

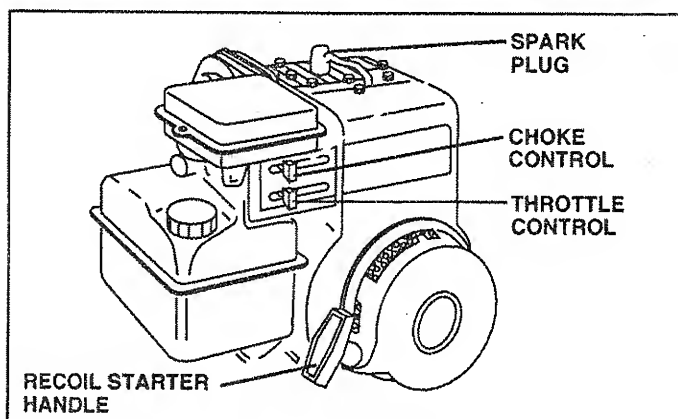


FIG. 8

BREAKING IN YOUR TILLER

Break-in your belts, pulleys and tine control before you actually begin tilling.

- Start engine, tip tines off ground by pressing handles down and engage tine control to start tine rotation. Allow tines to rotate for five minutes.
- Check tine operation and adjust if necessary. See "TINE OPERATION CHECK" in the Service and Adjustments section of this manual.

TILLING HINTS



CAUTION: Until you are accustomed to handling your tiller, start actual field use with throttle in slow position (mid-way between "FAST" and "IDLE").

To help tiller move forward, lift up the handles slightly (thus lifting depth stake out of ground). To slow down the tiller, press down on handles.

If you are straining or tiller is shaking, the wheels and depth stake are not set properly in the soil being tilled. The proper setting of the wheels and depth stake is through trial and error and depends upon the soil condition. (The harder or wetter the ground, the slower the engine and tine speed needed. Under these poor conditions, at fast speed the tiller will run and jump over the ground).

A properly adjusted tiller will dig with little effort from the operator.

- Tilling is digging into, turning over, and breaking up packed soil before planting. Loose, unpacked soil helps root growth. Best tilling depth is 4" to 6" (10-15 cm). A tiller will also clear the soil of unwanted vegetation. The decomposition of this vegetable matter enriches the soil. Depending on the climate (rainfall and wind), it may be advisable to till the soil at the end of the growing season to further condition the soil.
- Soil conditions are important for proper tilling. Tines will not readily penetrate dry, hard soil which may contribute to excessive bounce and difficult handling of your tiller. Hard soil should be moistened before tilling; however, extremely wet soil will "ball-up" or clump during tilling. Wait until the soil is less wet in order to achieve the best results. When tilling in the fall, remove vines and long grass to prevent them from wrapping around the tine shaft and slowing your tilling operation.

- You will find tilling much easier if you leave a row untilled between passes. Then go back over the entire area at right angles (See Fig. 9). There are two reasons for doing this. First, wide turns are much easier to negotiate than about-faces. Second, the tiller won't be pulling itself, and you, toward the row next to it.
- Set depth stake and wheel height for shallow tilling when working extremely hard soil or sod. Then work across the first cuts at normal depth.

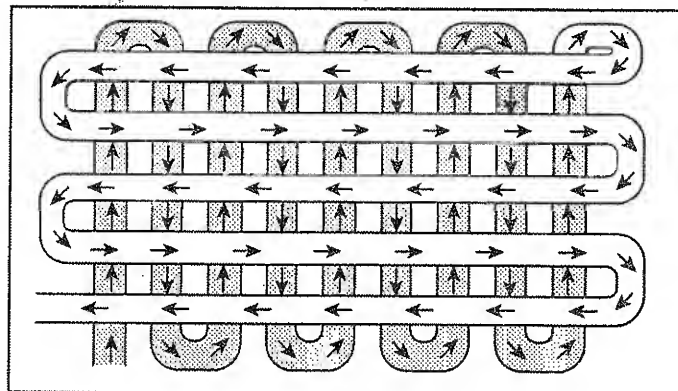


FIG. 9

CULTIVATING

Cultivating is destroying the weeds between rows to prevent them from robbing nourishment and moisture from the plants. At the same time, breaking up the upper layer of soil crust will help retain moisture in the soil. Best digging depth is 1" to 3" (2.5-7.5 cm).

- You will probably not need to use the depth stake. Begin by tipping the depth stake forward until it is held by the stake spring.
- Cultivate up and down the rows at a speed which will allow tines to uproot weeds and leave the ground in rough condition, promoting no further growth of weeds and grass (See Fig. 10).

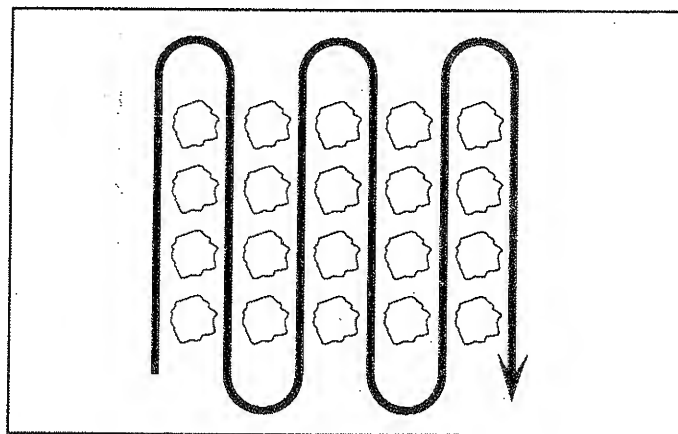


FIG. 10

CUSTOMER RESPONSIBILITIES

MAINTENANCE SCHEDULE															
	BEFORE EACH USE	FIRST 2 HOURS	EVERY 5 HOURS	EVERY 25 HOURS	EVERY 50 HOURS	SERVICE DATES									
FILL IN DATES AS YOU COMPLETE REGULAR SERVICE															
Check Engine Oil Level	✓		✓												
Change Engine Oil		✓		✓ _{1,2}											
Oil Pivot Points			✓												
Inspect Spark Arrester Muffler					✓										
Inspect Air Screen	✓														
Clean or Replace Air Cleaner Cartridge				✓ ₂											
Clean Engine Cylinder Fins				✓											
Replace Spark Plug					✓										

1 - Change more often when operating under a heavy load or in high ambient temperatures.

2 - Service more often when operating in dirty or dusty conditions.

GENERAL RECOMMENDATIONS

The warranty on this tiller does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, operator must maintain tiller as instructed in this manual.

Some adjustments will need to be made periodically to properly maintain your tiller.

All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

- Once a year you should replace the spark plug, clean or replace air filter, and check tines and belts for wear. A new spark plug and clean air filter assure proper air-fuel mixture and help your engine run better and last longer.

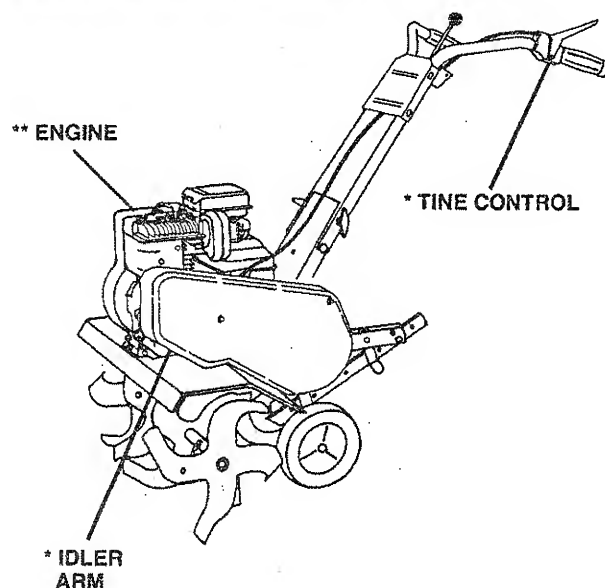
BEFORE EACH USE

- Check engine oil level.
- Check tine operation.
- Check for loose fasteners.

LUBRICATION

Keep unit well lubricated (See "LUBRICATION CHART").

LUBRICATION CHART



* SAE 30 OR 10W-30 MOTOR OIL

** REFER TO CUSTOMER RESPONSIBILITIES "ENGINE" SECTION

CUSTOMER RESPONSIBILITIES



Disconnect spark plug wire before performing any maintenance (except carburetor adjustment) to prevent accidental starting of engine.

Prevent fires! Keep the engine free of grass, leaves, spilled oil, or fuel. Remove fuel from tank before tipping unit for maintenance. Clean muffler area of all grass, dirt, and debris.

Do not touch hot muffler or cylinder fins as contact may cause burns.

ENGINE

LUBRICATION

Use only high quality detergent oil rated with API service classification SG. Select the oil's SAE viscosity grade according to your expected temperature.

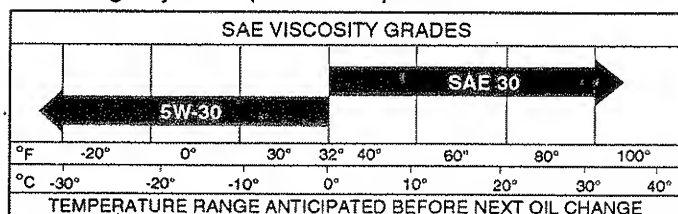


FIG. 11

NOTE: Although multi-viscosity oils (5W-30, 10W-30, etc.) improve starting in cold weather, these multi-viscosity oils will result in increased oil consumption when used above 32°F (0°C). Check your engine oil level more frequently to avoid possible engine damage from running low on oil.

Change the oil after the first two hours of operation and every 25 hours thereafter or at least once a year if the tiller is not used for 25 hours in one year.

Check the crankcase oil level before starting the engine and after each five (5) hours of continuous use. Add SAE 30 motor oil or equivalent. Tighten oil filler plug securely each time you check the oil level.

TO CHANGE ENGINE OIL (See Figs. 11 and 12)

Determine temperature range expected before oil change. All oil must meet API service classification SG.

- Be sure tiller is on level surface.
- Oil will drain more freely when warm.
- Catch oil in a suitable container.
- Remove drain plug.
- Tip tiller forward to drain oil.
- After oil has drained completely, replace oil drain plug and tighten securely.
- Remove oil filler plug. Be careful not to allow dirt to enter the engine.
- Refill engine with oil. See "CHECK ENGINE OIL LEVEL" in the Operation section of this manual.

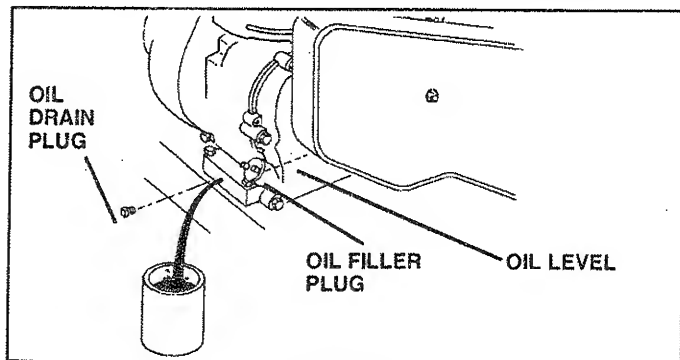


FIG. 12

AIR CLEANER (See Fig. 13)

Service air cleaner cartridge every twenty-five hours, more often if engine is used in very dusty conditions.

- Loosen air cleaner screws, one on each side of cover.
- Remove air cleaner cover.
- Carefully remove air cleaner cartridge. Be careful. Do not allow dirt or debris to fall into carburetor.
- Clean by tapping gently on a flat surface.
- If very dirty, replace or wash in a nonsudsing detergent and warm water solution. Rinse thoroughly with water flowing from mesh side until water is clear. Allow cartridge to stand and air dry thoroughly before using.
- Clean and replace cover. Tighten screws securely.



CAUTION: Petroleum solvents, such as kerosene, are not to be used to clean cartridge. They may cause deterioration of the cartridge. Do not oil cartridge. Do not use pressurized air to clean or dry cartridge.

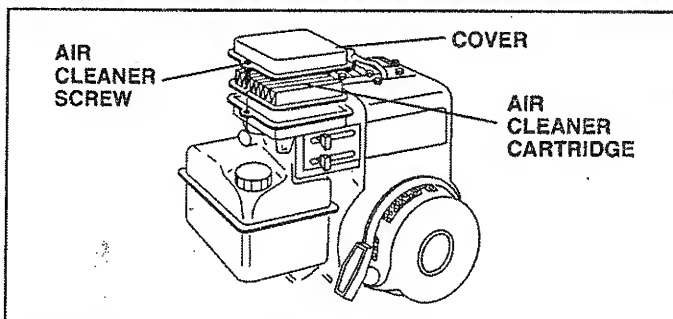


FIG. 13

COOLING SYSTEM (See Fig. 14)

Your engine is air cooled. For proper engine performance and long life keep your engine clean.

- Clean air screen frequently using a stiff-bristled brush.
- Remove blower housing and clean as necessary.
- Keep cylinder fins free of dirt and chaff.

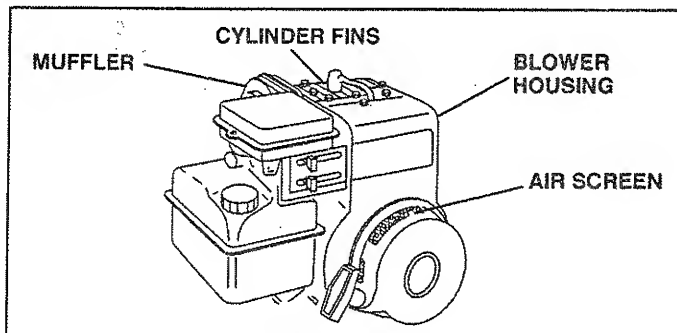


FIG. 14

CUSTOMER RESPONSIBILITIES

MUFFLER

Do not operate tiller without muffler. Do not tamper with exhaust system. Damaged mufflers or spark arresters could create a fire hazard. Inspect periodically and replace if necessary. If your engine is equipped with a spark arrester screen assembly, remove every 50 hours for cleaning and inspection. Replace if damaged.

SPARK PLUG

Replace spark plugs at the beginning of each tilling season or after every 50 hours of use, whichever comes first. Spark plug type and gap setting is shown in "PRODUCT SPECIFICATIONS" on page 3 of this manual.

TRANSMISSION

Your transmission is sealed and will only require lubrication if serviced.

CLEANING

- Clean engine, wheels, finish, etc. of all foreign matter.
- Keep finished surfaces and wheels free of all gasoline, oil, etc.
- Protect painted surfaces with automotive type wax.

We do not recommend using a garden hose to clean your unit unless the muffler, air filter and carburetor are covered to keep water out. Water in engine can result in a shortened engine life.

SERVICE AND ADJUSTMENTS



CAUTION: Disconnect spark plug wire from spark plug and place wire where it cannot come into contact with plug.

TILLER

TO ADJUST HANDLE HEIGHT (See Fig. 15)

Factory assembly has provided lowest handle height. Select handle height best suited for your tilling conditions. Handle height will be different when tiller digs into soil.

- If a higher handle height is desired, loosen the four nuts securing handle panel to engine brackets.
- Slide handle panel to desired location.
- Tighten the four nuts securely.

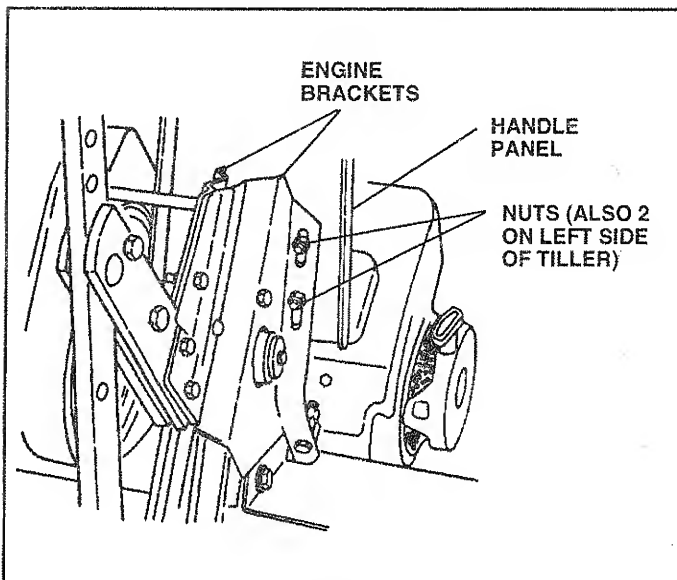


FIG. 15

TINE ARRANGEMENT

Your outer tines can be assembled in several different ways to suit your tilling or cultivating needs.



CAUTION: Tines are sharp. Wear gloves or other protection when handling tines.

NORMAL TILLING - 24"/61 cm PATH (See Fig. 16)

- Assemble holes "A" in tine hubs to holes "B" in tine shaft.

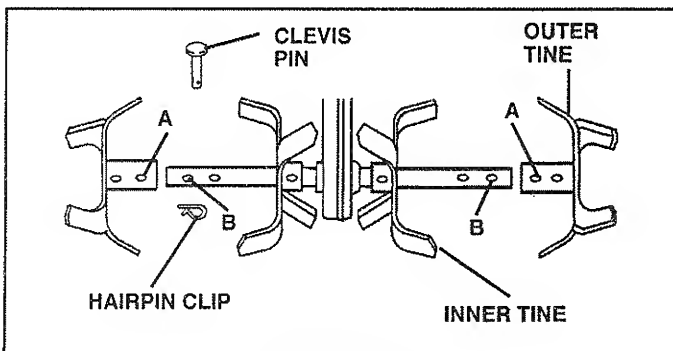


FIG. 16

SERVICE AND ADJUSTMENTS

MID-WIDTH TILLING - 22"/56cm PATH (See Fig. 17)

- Assemble holes "A" in tine hubs to holes "C" in tine shaft.

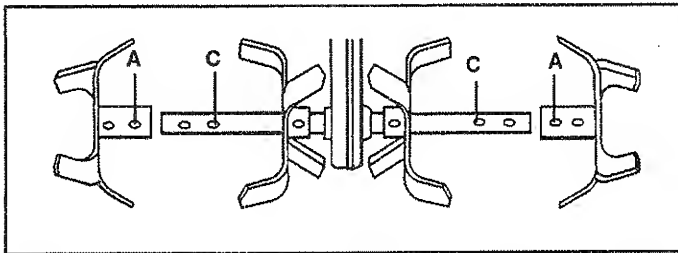


FIG. 17

NARROW TILLING/CULTIVATING - 12.75"/32cm PATH (See Fig. 18)

- Remove outer tines.

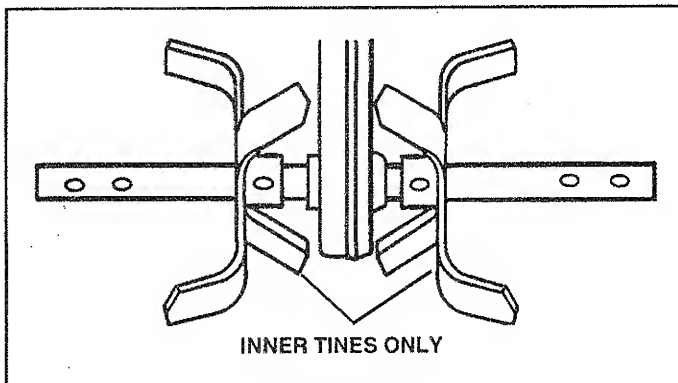


FIG. 18

NOTE: When reassembling outer tines, be sure right tine assembly (marked "R") and left tine assembly (marked "L") are mounted to correct side of tine shaft.

TINE OPERATION CHECK (See Fig. 19)



WARNING: Disconnect spark plug wire from spark plug to prevent starting while checking tine operation.

For proper tine operation, forward tine control lever must be against control body and all slack removed from inner wire of control cable when control is in the "OFF" (up) position.

If lever and cable are loose, loosen cable clip at lower end of cable. Pull up on cable to remove slack, without extending spring on end of cable, and retighten cable clip.

FINAL CHECK "OFF" POSITION

- With tine control "OFF" (up), push down on handle to raise tines off the ground.
- Slowly pull recoil starter handle while observing tines. Tines should not rotate.
- If tines rotate, inner wire of control cable is too tight which is extending lower spring and engaging tines. Loosen cable clip and push down on cable only enough to relieve spring tension. Tighten cable clip.
- Recheck in "OFF" position and adjust if necessary.

FINAL CHECK "ON" POSITION

- With tine control "ON" (held down to handle) push down on handle to raise tines off the ground.
- Slowly pull recoil starter handle while observing tines. Tines should rotate forward.
- If tines do not rotate, inner wire of control cable is too loose. Loosen cable clip and pull cable up to remove slack and retighten clip.
- Recheck in "ON" position and adjust if necessary.

NOTE: If "ON" position check required adjustment, recheck "OFF" position adjustment to insure tines do not rotate when control is "OFF" (up).

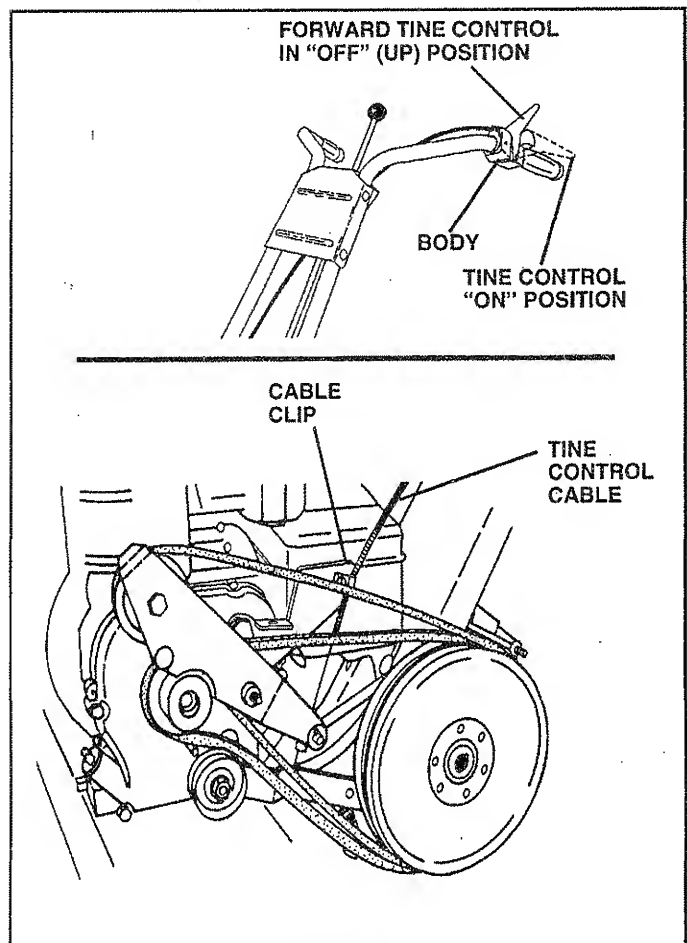


FIG. 19

SERVICE AND ADJUSTMENTS

TO REPLACE V-BELTS (See Figs. 20 and 21)

Replace V-belts if they have stretched considerably or if they show cracks or frayed edges. There are two (2) V-belts - forward (inside) and reverse (outside).

Belt guard must be removed to service belts. See "TO REMOVE BELT GUARD" in this section of manual.

NOTE: Observe carefully routing of both belts and location of all belt guides before removing belts.

BELT REMOVAL

- Remove reverse idler pulley from idler arm.
- Remove reverse (outside) V-belt.
- Remove forward (inside) V-belt from transmission pulley first and then from engine pulley.

BELT REPLACEMENT

- Install new forward (inside) V-belt to engine pulley first then to transmission pulley. Be sure belt is positioned on inside groove of both pulleys, inside all belt guides and rests on idler pulley.
- Before installing reverse (outside) V-belt, turn belt "inside out". Twist so wide, flat surface of belt is to inside.
- Wrap V-belt around reverse idler pulley and reassemble idler to idler arm. Tighten securely. Be sure belt is between reverse idler pulley and idler arm pin.
- Install belt to outside groove of transmission pulley. Be sure belt is inside all belt guides and rests on outside groove of engine pulley.

CHECK TINE OPERATION

- See "TINE OPERATION CHECK" in this section of manual.

REPLACE BELT GUARD

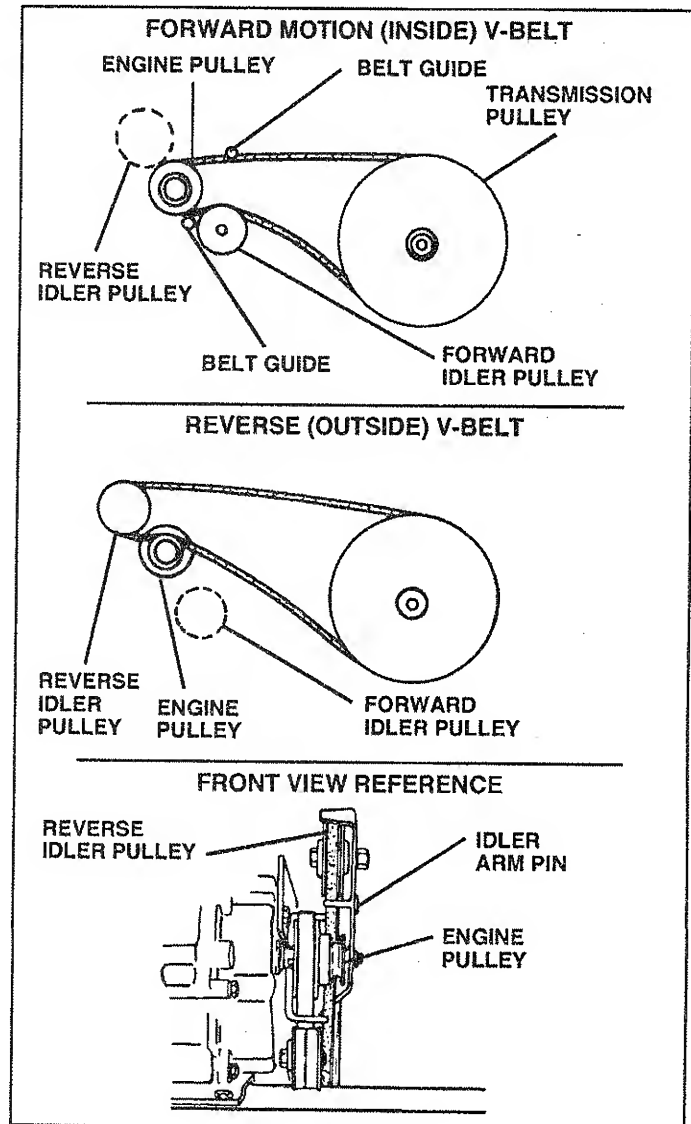


FIG. 21

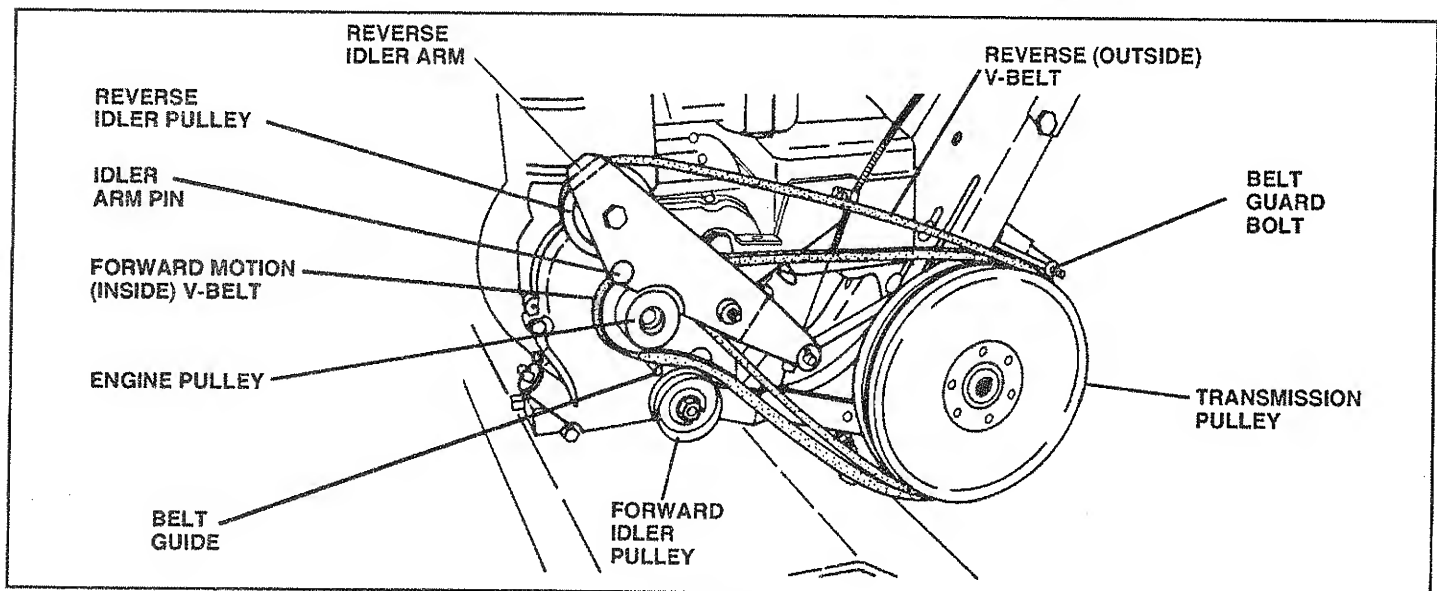


FIG. 20

SERVICE AND ADJUSTMENTS

TO REMOVE BELT GUARD (See Fig. 22)

- Remove two (2) cap nuts and washers from side of belt guard.
- Loosen (do not remove) tine shield nut on underside of tine shield.
- Pull belt guard out and away from unit.
- Replace belt guard by reversing above procedure. Be sure slot in bottom of belt guard is under head of tine shield bolt and all nuts are tightened securely.

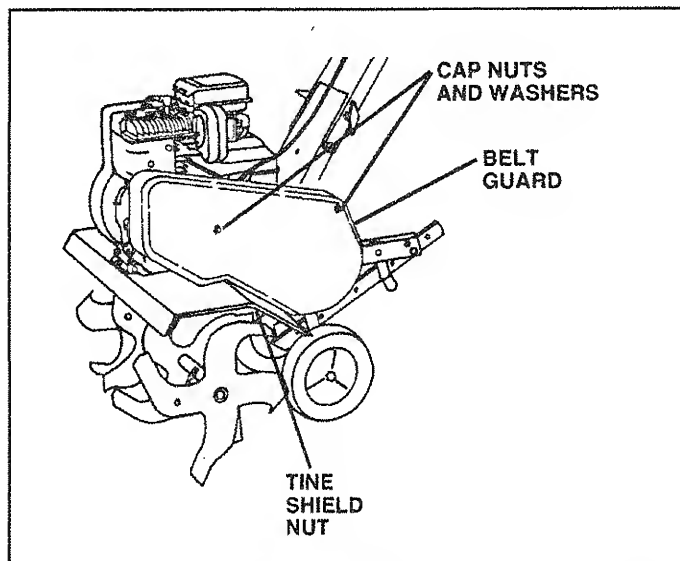


FIG. 22

ENGINE

TO ADJUST CARBURETOR

The carburetor has been preset at the factory and adjustment should not be necessary. However, minor adjustments may be required to compensate for differences in fuel, temperature, altitude or load. If the carburetor does need adjustment, see the engine manual packed with your unit.

IMPORTANT: NEVER TAMPER WITH THE ENGINE GOVERNOR, WHICH IS FACTORY SET FOR PROPER ENGINE SPEED. OVERSPEEDING THE ENGINE ABOVE THE FACTORY HIGH SPEED SETTING CAN BE DANGEROUS. IF YOU THINK THE ENGINE-GOVERNED HIGH SPEED NEEDS ADJUSTING, CONTACT YOUR NEAREST AUTHORIZED SERVICE FACILITY, WHICH HAS PROPER EQUIPMENT AND EXPERIENCE TO MAKE ANY NECESSARY ADJUSTMENTS.

STORAGE

Immediately prepare your tiller for storage at the end of the season or if the unit will not be used for 30 days or more.



CAUTION: Never store the tiller with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.

TILLER

- Clean entire tiller (See "CLEANING" in the Customer Responsibilities section of this manual).
- Inspect and replace belts, if necessary (See belt replacement instructions in the Service and Adjustments section of this manual).
- Lubricate as shown in the Customer Responsibilities section of this manual.
- Be sure that all nuts, bolts and screws are securely fastened. Inspect moving parts for damage, breakage and wear. Replace if necessary.
- Touch up all rusted or chipped paint surfaces; sand lightly before painting.

ENGINE

FUEL SYSTEM

IMPORTANT: IT IS IMPORTANT TO PREVENT GUM DEPOSITS FROM FORMING IN ESSENTIAL FUEL SYSTEM PARTS SUCH AS THE CARBURETOR, FUEL FILTER, FUEL HOSE, OR TANK DURING STORAGE. ALSO, EXPERIENCE INDICATES THAT ALCOHOL BLENDED FUELS (CALLED GASOHOL OR USING ETHANOL OR METHANOL) CAN ATTRACT MOISTURE WHICH LEADS TO SEPARATION AND FORMATION OF ACIDS DURING STORAGE. ACIDIC GAS CAN DAMAGE THE FUEL SYSTEM OF AN ENGINE WHILE IN STORAGE.

- Drain the fuel tank.
- Start the engine and let it run until the fuel lines and carburetor are empty.
- Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.
- Use fresh fuel next season.

NOTE: Fuel stabilizer is an acceptable alternative in minimizing the formation of fuel gum deposits during storage. Add stabilizer to gasoline in fuel tank or storage container. Always follow the mix ratio found on stabilizer container. Run engine at least 10 minutes after adding stabilizer to allow the stabilizer to reach the carburetor. Do not drain the gas tank and carburetor if using fuel stabilizer.

ENGINE OIL

Drain oil (with engine warm) and replace with clean oil. (See "ENGINE" in the Customer Responsibilities section of this manual).

CYLINDERS

- Remove spark plug.
- Pour 1 ounce (29 ml) of oil through spark plug hole into cylinder.
- Pull starter handle slowly several times to distribute oil.
- Replace with new spark plug.

OTHER

- Do not store gasoline from one season to another.
- Replace your gasoline can if your can starts to rust. Rust and/or dirt in your gasoline will cause problems.
- If possible, store your unit indoors and cover it to give protection from dust and dirt.
- Cover your unit with a suitable protective cover that does not retain moisture. Do not use plastic. Plastic cannot breathe which allows condensation to form and will cause your unit to rust.

IMPORTANT: NEVER COVER TILLER WHILE ENGINE AND EXHAUST AREAS ARE STILL WARM.

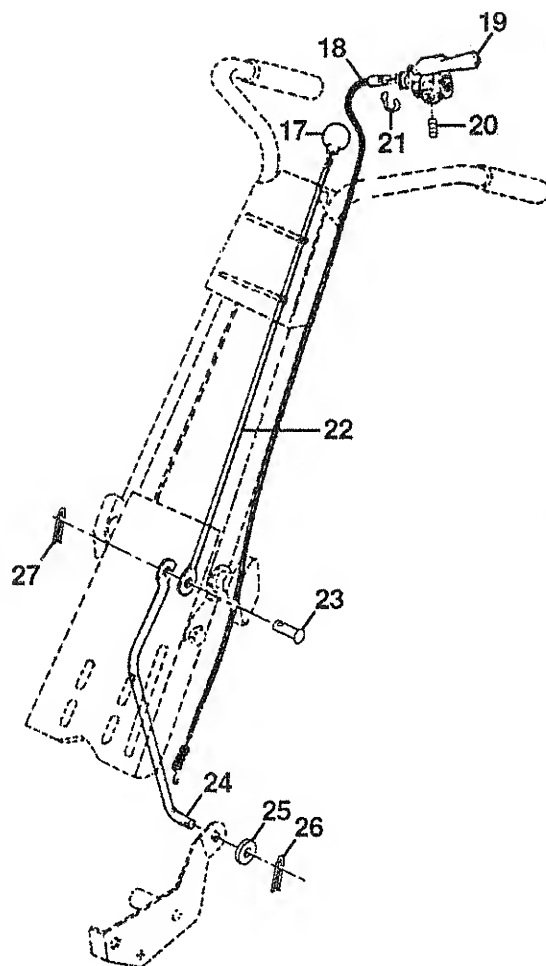
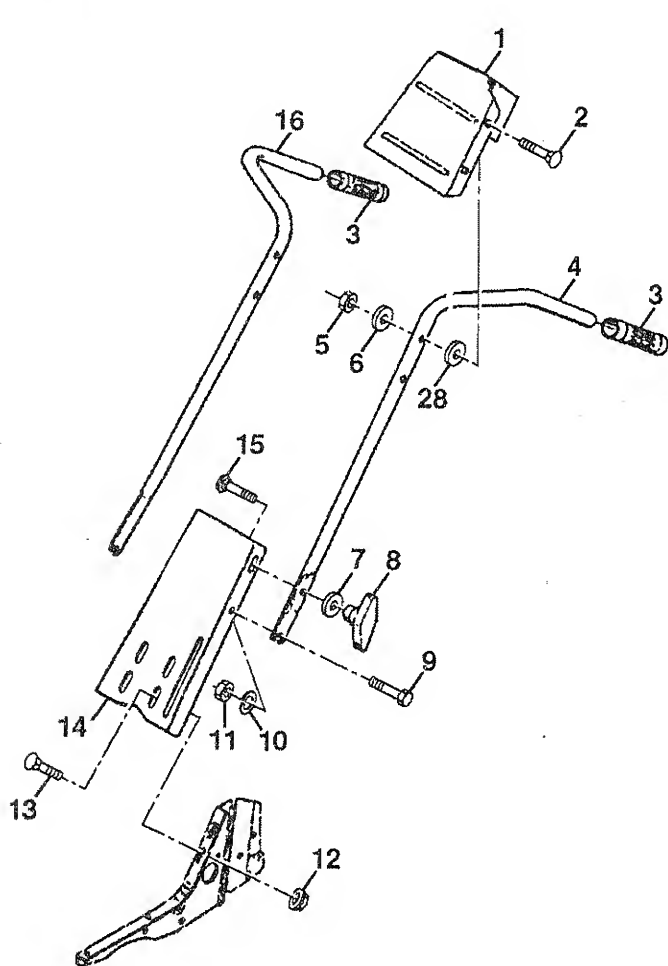
TROUBLESHOOTING POINTS

PROBLEM	CAUSE	CORRECTION
Will not start	<ol style="list-style-type: none"> 1. Out of fuel. 2. Engine not "CHOKED" properly. 3. Engine flooded. 4. Dirty air cleaner. 5. Water in fuel. 6. Clogged fuel tank. 7. Loose spark plug wire. 8. Bad spark plug or improper gap. 9. Carburetor out of adjustment. 	<ol style="list-style-type: none"> 1. Fill fuel tank. 2. See "TO START ENGINE" in the Operation section. 3. Wait several minutes before attempting to start. 4. Clean or replace air cleaner cartridge. 5. Drain fuel tank and carburetor, and refill tank with fresh gasoline. 6. Remove fuel tank and clean. 7. Make sure spark plug wire is seated properly on plug. 8. Replace spark plug or adjust gap. 9. Make necessary adjustments.
Hard to start	<ol style="list-style-type: none"> 1. Throttle control not set properly. 2. Dirty air cleaner. 3. Bad spark plug or improper gap. 4. Stale or dirty fuel. 5. Loose spark plug wire. 6. Carburetor out of adjustment. 	<ol style="list-style-type: none"> 1. Place throttle control in "FAST" position. 2. Clean or replace air cleaner cartridge. 3. Replace spark plug or adjust gap. 4. Drain fuel tank and refill with fresh gasoline. 5. Make sure spark plug wire is seated properly on plug. 6. Make necessary adjustments.
Loss of power	<ol style="list-style-type: none"> 1. Engine is overloaded. 2. Dirty air cleaner. 3. Low oil level/dirty oil. 4. Faulty spark plug. 5. Oil in fuel. 6. Stale or dirty fuel. 7. Water in fuel. 8. Clogged fuel tank. 9. Spark plug wire loose. 10. Dirty engine air screen. 11. Dirty/clogged muffler. 12. Carburetor out of adjustment. 13. Poor compression. 	<ol style="list-style-type: none"> 1. Set depth stake and wheels for shallower tilling. 2. Clean or replace air cleaner cartridge. 3. Check oil level/change oil. 4. Clean and regap or change spark plug. 5. Drain and clean fuel tank and refill, and clean carburetor. 6. Drain fuel tank and refill with fresh gasoline. 7. Drain fuel tank and carburetor, and refill tank with fresh gasoline. 8. Remove fuel tank and clean. 9. Connect and tighten spark plug wire. 10. Clean engine air screen. 11. Clean/replace muffler. 12. Make necessary adjustments. 13. Contact an authorized service center.
Engine overheats	<ol style="list-style-type: none"> 1. Low oil level/dirty oil. 2. Dirty engine air screen. 3. Dirty engine. 4. Partially plugged muffler. 5. Improper carburetor adjustment. 	<ol style="list-style-type: none"> 1. Check oil level/change oil. 2. Clean engine air screen. 3. Clean cylinder fins, air screen, muffler area. 4. Remove and clean muffler. 5. Adjust carburetor to richer position.
Excessive bounce/ difficult handling	<ol style="list-style-type: none"> 1. Ground too dry and hard. 2. Wheels and depth stake incorrectly adjusted. 	<ol style="list-style-type: none"> 1. Moisten ground or wait for more favorable soil conditions. 2. Adjust wheels and depth stake.
Soil balls up or clumps	<ol style="list-style-type: none"> 1. Ground too wet. 	<ol style="list-style-type: none"> 1. Wait for more favorable soil conditions.
Engine runs but tiller won't move	<ol style="list-style-type: none"> 1. Tine control is not engaged. 2. V-belt not correctly adjusted. 3. V-belt is off pulley(s). 	<ol style="list-style-type: none"> 1. Engage tine control. 2. Inspect/adjust V-belt. 3. Inspect V-belt.
Engine runs but labors when tilling	<ol style="list-style-type: none"> 1. Tilling too deep. 2. Throttle control not properly adjusted. 3. Carburetor out of adjustment. 	<ol style="list-style-type: none"> 1. Set depth stake for shallower tilling. 2. Check throttle control setting. 3. Make necessary adjustments.

REPAIR PARTS

5 HP 24" TILLER - - MODEL NUMBER WEF550B

HANDLE ASSEMBLY



KEY NO.	PART NO.	DESCRIPTION
1	131268X419	Bracket, Handle
2	72140512	* Bolt, Carriage 5/16-18 UNC x 1-1/2
3	9266R	Grip, Handle
4	2623J	Handle, L.H.
5	73680500	* Locknut, Crown 5/16-18
6	19111116	* Washer 11/32 x 11/16 x 16 Ga.
7	19121414	* Washer 3/8 x 7/8 x 14 Ga.
8	136376	Knob, Handle
9	471J	Bolt, Shoulder 5/16-18 x 3/4
10	10040500	* Washer, Lock 5/16
11	73220500	* Nut, Hex 5/16-18
12	98000129	* Nut, Flanged 5/16-18
13	72140506	* Bolt, Carriage 5/16-18 x 3/4 Gr. 5
14	674A150419	Panel, Handle
15	72110510	* Bolt, Carriage 5/16-18 x 1-1/4 Gr. 5
16	2624J	Handle, R.H.
17	106932X	Knob, Control, Reverse

KEY NO.	PART NO.	DESCRIPTION
18	3066J	Cable, Control, Tine
19	2635J	Lever, Control, Tine
20	23200405	* Screw, Set, Socket, Forged, Headless 1/4-20 x 5/16
21	12000027	* Ring, Klip
22	101248K	Rod, Reverse, Upper
23	1778E	Pin, Retaining
24	2613J	Rod, Reverse, Lower
25	19131316	* Washer 13/32 x 13/16 x 16 Ga.
26	76020412	* Pin, Cotter 1/8 x 3/4
27	76020308	* Pin, Cotter 3/32 x 1/2
28	19131312	Washer 13/32 x 13/16 x 12 Ga.

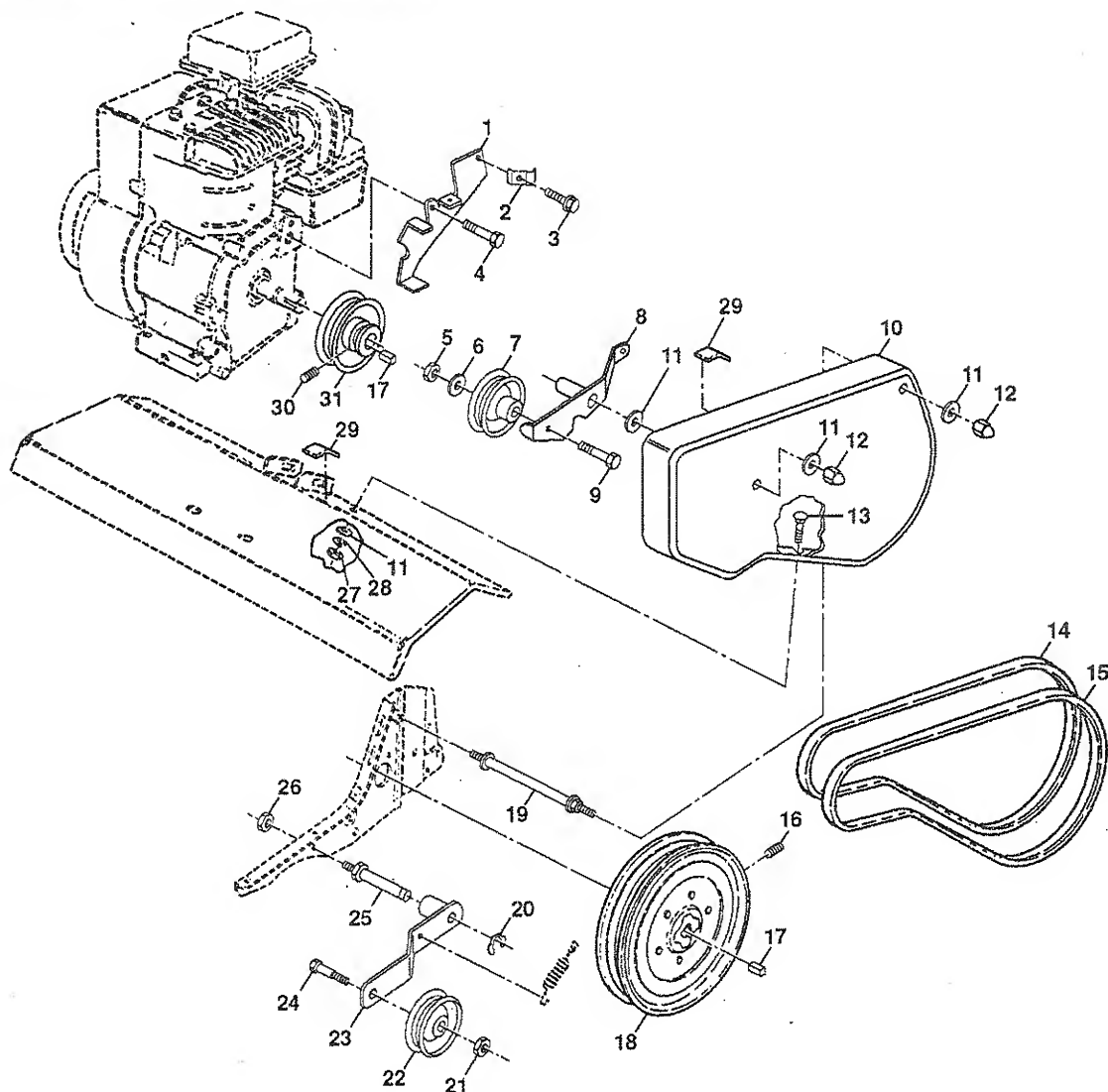
*STANDARD HARDWARE — PURCHASE LOCALLY

NOTE: All component dimensions are given in U.S. inches.
1 inch = 25.4 mm

REPAIR PARTS

5 HP 24" TILLER - - MODEL NUMBER WEF550B

BELT GUARD AND PULLEY ASSEMBLY



KEY NO.	PART NO.	DESCRIPTION
1	123643X	Assembly, Bracket, Belt Guard
2	9484R	Clip, Cable
3	86777	Screw, Hex, Washer Hd., Slotted, Thd. Cutting #10-24 x 1/2 Type D
4	74770812	Bolt, Hex 1/2-20 x 3/4
5	73220600	* Nut, Hex 3/8-16
6	19131316	Washer 13/32 x 13/16 x 16 Ga.
7	2009J	Pulley, Idler, Reverse
8	127180X	Assembly, Arm, Reverse Idler
9	74760628	* Bolt, Hex 3/8-16 x 1-3/4
10	106970X419	Guard, Belt
11	19091016	* Washer 9/32 x 5/8 x 16 Ga.
12	104213X	Nut, Cap 1/4-20
13	72140405	Bolt, Carriage 1/4-20 x 5/8
14	133035	V-Belt (Forward Motion)
15	2614J	V-Belt (Reverse)
16	23230506	* Screw, Set, Socket, Headless C.P. 5/16-18 x 3/8
17	2649M	Key, Square

KEY NO.	PART NO.	DESCRIPTION
18	2607J	Sheave, Transmission
19	110550X	Bolt, Belt Guard
20	12000036	Ring, Klip
21	73350600	* Nut, Hex, Jam 3/8-16
22	9178R	Pulley, Idler
23	674A30	Arm, Idler
24	74760620	* Bolt, Hex 3/8-16 x 1-1/4
25	106968X	Shaft, Idler Arm
26	73350500	Nut, Hex, Jam 5/16-18
27	73220400	* Nut, Hex 1/4-20
28	10040400	* Washer, Lock 1/4
29	109227X	Pad, Idler
30	23200404	* Screw, Set, Socket, Headless C.P. 1/4-20 x 1/4
31	101189L	Sheave, Engine

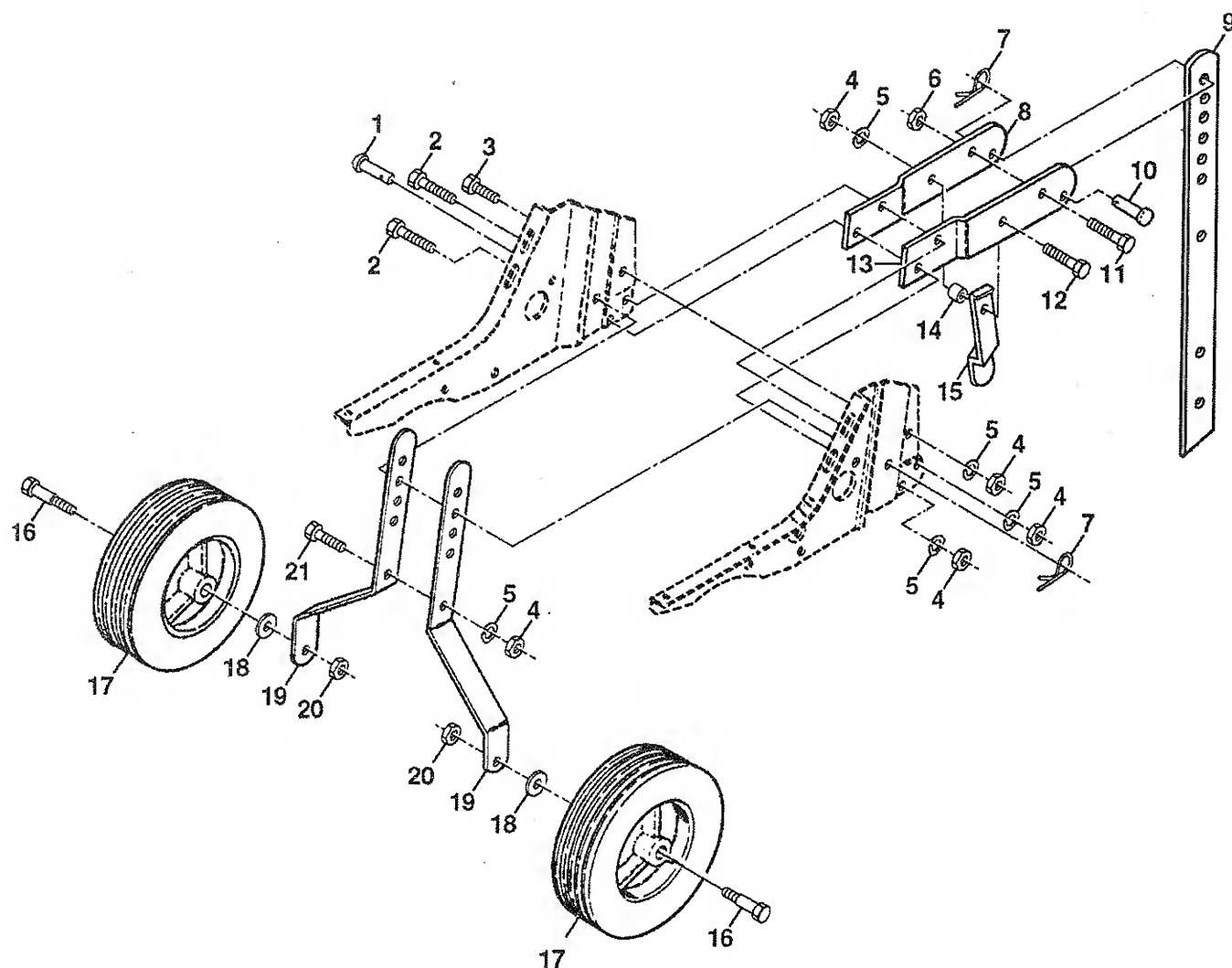
*STANDARD HARDWARE — PURCHASE LOCALLY

NOTE: All component dimensions given in U.S. inches.
1 inch = 25.4 mm

REPAIR PARTS

5 HP 24" TILLER -- MODEL NUMBER WEF550B

WHEEL AND DEPTH STAKE ASSEMBLY



KEY NO.	PART NO.	DESCRIPTION
1	9194R	Pin, Clevis
2	74760520	Bolt, Hex 5/16-18 x 1-1/4
3	74760512	* Bolt, Hex 5/16-18 x 3/4
4	73220500	* Nut, Hex 5/16-18
5	10040500	* Washer, Lock 5/16
6	7810H	* Locknut 3/8-24
7	4921H	Clip, Hairpin
8	1952J	Support, Depth Stake, R.H.
9	122233X	Stake, Depth
10	326J	Pin, Clevis
11	74610624	* Bolt, Hex 3/8-24 x 1-1/2 Gr. 5
12	74760524	Bolt, Hex 5/16-18 x 1-1/2 Gr. 2
13	1951J	Support, Depth Stake, L.H.

KEY NO.	PART NO.	DESCRIPTION
14	120958X	Washer
15	5388J	Spring, Stake
16	121117X	Bolt, Shoulder
17	9188R	Wheel
18	19131311	* Washer 13/32 x 13/16 x 11 Ga.
19	9190R	Bracket, Wheel
20	73680600	* Locknut, Crown 3/8-16
21	74760516	Bolt, Hex 5/16-18 x 1

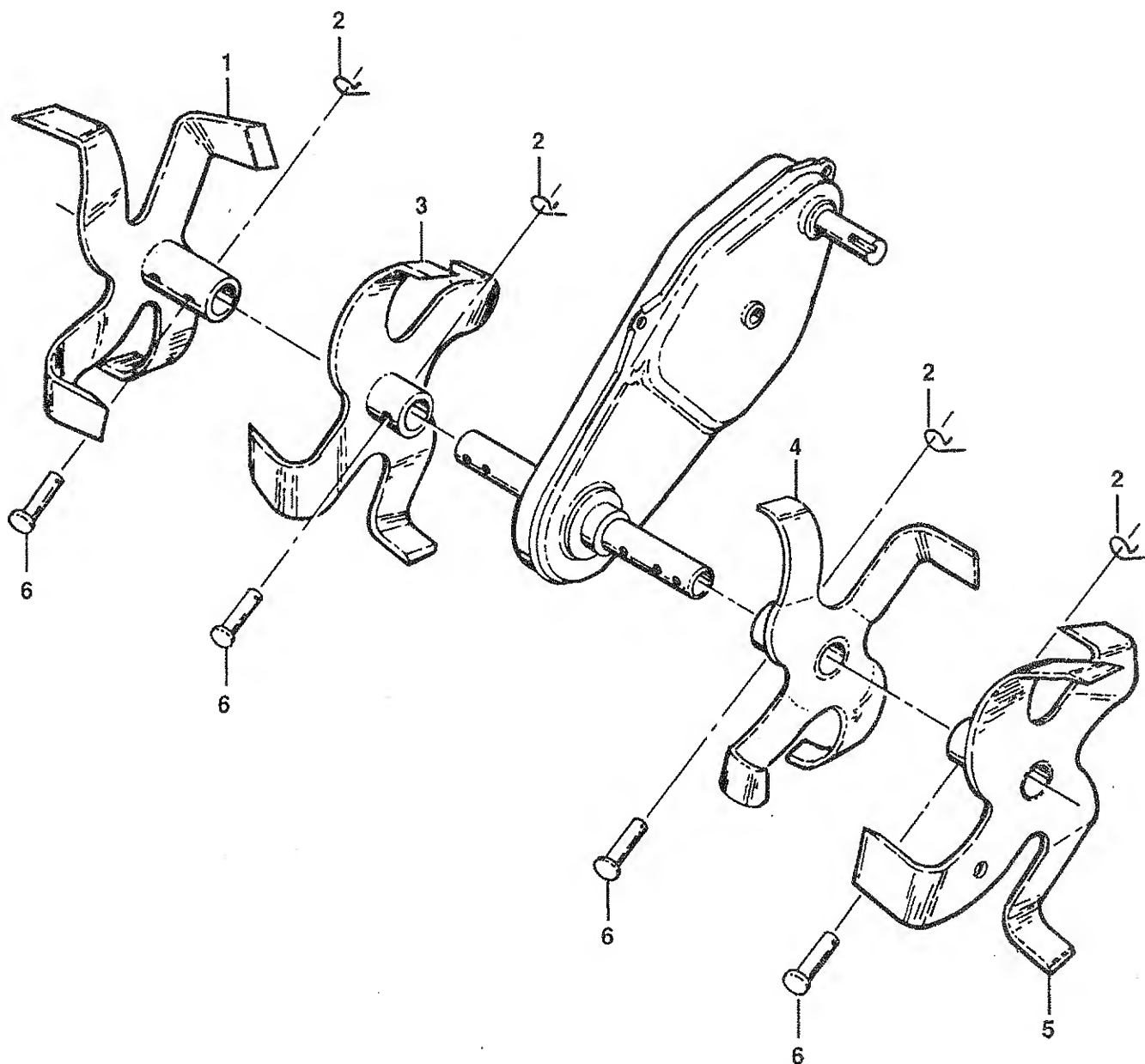
*STANDARD HARDWARE — PURCHASE LOCALLY

NOTE: All component dimensions given in U.S. inches.
1 inch = 25.4 mm

REPAIR PARTS

5 HP 24" TILLER - - MODEL NUMBER WEF550B

TINE ASSEMBLY



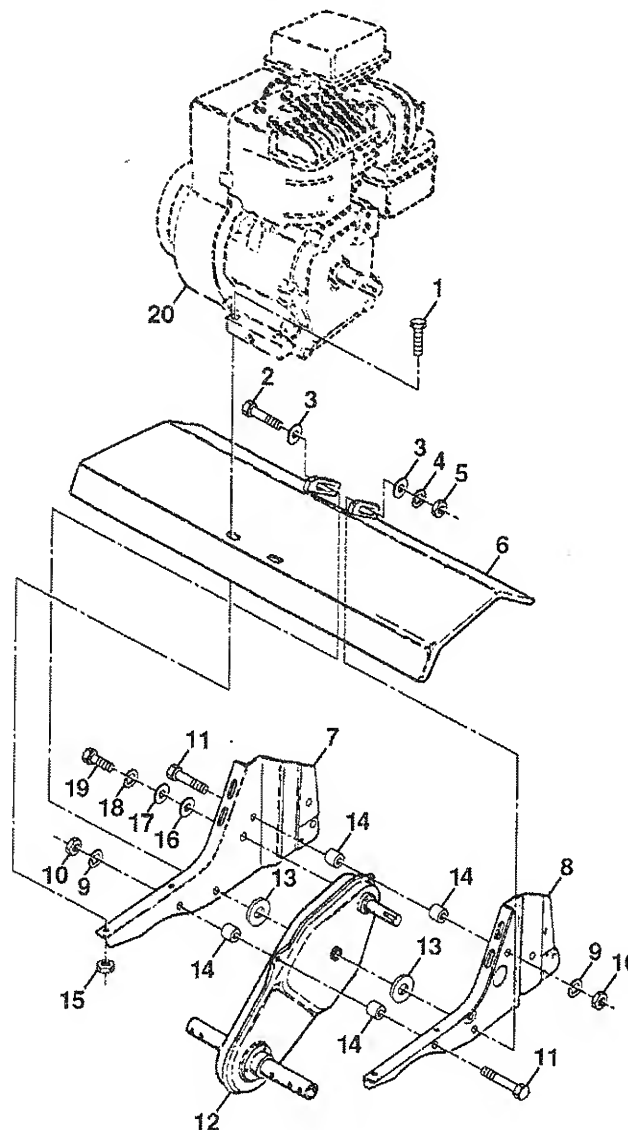
KEY NO.	PART NO.	DESCRIPTION
1	674A66	Tine, Outer, R.H.
2	3146R	Clip, Hairpin
3	674A64	Tine, Inner, R.H.

KEY NO.	PART NO.	DESCRIPTION
4	674A63	Tine, Inner, L.H.
5	674A65	Tine, Outer, L.H.
6	4929H	Pin, Clevis

REPAIR PARTS

5 HP 24" TILLER - - MODEL NUMBER WEF550B

TRANSMISSION



KEY NO.	PART NO.	DESCRIPTION
1	74760524	Bolt, Hex 5/16-18 x 1-1/2 Gr. 2
2	74610652	* Bolt, Hex 3/8-24 x 3-1/4 Gr. 5
3	19131311	* Washer 13/32 x 13/16 x 11
4	10040600	* Washer, Lock 3/8
5	7810H	Nut, Lock 3/8-24
6	9056R419	Shield, Tine
7	1949J	Bracket, Engine, R.H.
8	110519X	Bracket, Engine, L.H.
9	10040500	* Washer, Lock 5/16
10	73220500	* Nut, Hex 5/16-18
11	74760544	Bolt, Hex 5/16-18 x 2-3/4
12	126669X	Transmission
13	19171616	Washer 17/32 x 1 x 16 Ga.

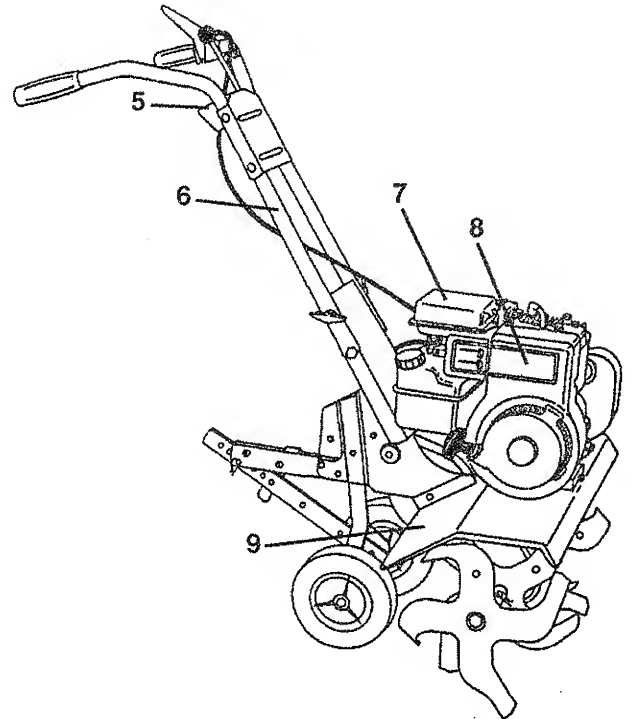
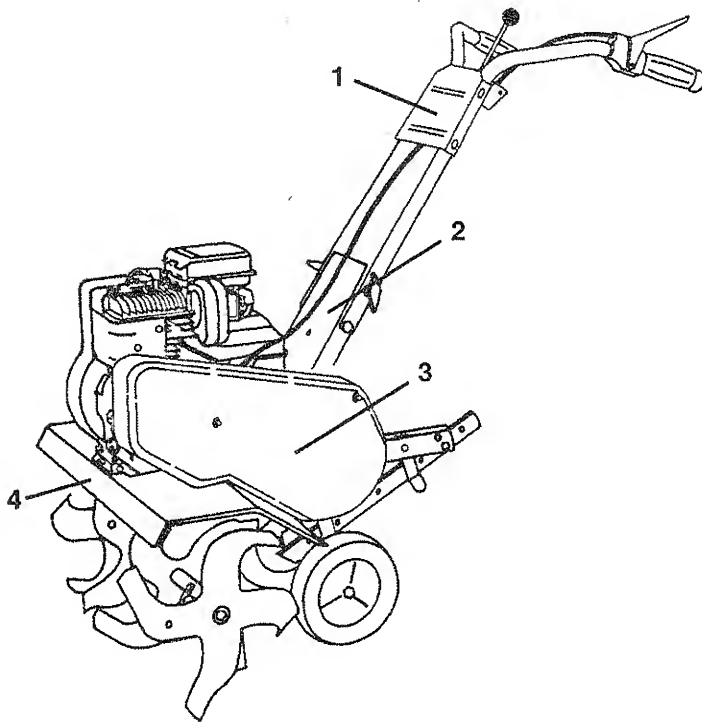
KEY NO.	PART NO.	DESCRIPTION
14	9173R	Spacer, Split
15	73510500	* Nut, Keps 5/16
16	19091412	Washer 9/32 x 7/8 x 12 Ga.
17	19092016	Washer 9/32 x 1-1/4 x 16 Ga.
18	10040400	* Lockwasher 1/4
19	74610412	Bolt, Hex 1/4-28 x 3/4 Gr. 5
20	-----	Engine, B & S, Model No. 135202

*STANDARD HARDWARE — PURCHASE LOCALLY
 NOTE: All component dimensions given in U.S. inches.
 1 inch = 25.4 mm

REPAIR PARTS

5 HP 24" TILLER - - MODEL NUMBER WEF550B

DECALS



KEY NO.	PART NO.	DESCRIPTION
1	132591	Decal, Logo
2	137686	Decal, HP, Reverse
3	137685	Decal, Logo
4	137667	Decal, Description
5	121753X	Decal, Reverse, Tine Control
6	110614X	Decal, Hand Placement
7	110612X	Decal, Caution
8	121543X	Decal, Briggs & Stratton
9	120076X	Decal, Warning, Rotating Tines
--	137338	Manual, Owner's (English)
--	137339	Manual, Owner's (French)